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1. A method, performed by a first network device, for use in configuring a second network device, comprising:

receiving a request for configuration information from the second network device; and

determining whether to respond to the request based on at least one of (i) lapse of a predetermined time period, and (ii) whether another device on the network issues a response to the request.

- 2. The method of claim 1, wherein the predetermined time period is unique to the first network device relative to other devices on the network.
- 3. The method of claim 1, wherein if another device on the network issues a response, the first network device does not issue a response.
- 4. The method of claim 3, wherein if another device on the network issues a response, the first network device:

receives the response from the other device;

compares information in the response to stored

configuration information; and

determines whether to reconfigure itself based on the comparison.

- 5. The method of claim 4, wherein, if the information in the response does not match the stored configuration information, the first network device reconfigures itself.
  - 6. The method of claim 1, wherein the request comprises a combined router solicitation and an address mask request.
  - 7. The method of claim 1, wherein a response to the request comprises a combined router advertisement and an address mask reply.
  - 8. The method of claim 1, wherein the first network device comprises one of a peer of the second network device and a router to an external network.
    - A system comprising:
  - a first network device which receives a request for configuration information;
    - a second network device; and
    - a third network device which issues the request;

wherein the first network device is configured to respond to the request within a first time period and the second network device is configured to respond to the request within a second time period if the first network device does not respond to the request within the first time period.

- 10. The system of claim 9, wherein the second network receives a response to the request issued by the first network device, compares information in the response to stored configuration information, and determines whether to reconfigure itself based on the comparison.
- 11. The system of claim 10, wherein, if the information in the response does not match the stored configuration information, the second network device reconfigures itself.
- 12. The system of claim 9, wherein the request comprises a combined router solicitation and an address mask request.
- 20 13. The system of claim 9, wherein a response to the request comprises a combined router advertisement and an address mask reply.

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14. An article comprising a machine-readable storage medium which stores instructions that are executed by a first network device to configure a second network device, the instructions causing the first network device to:

receive a request for configuration information from the second network device; and

determine whether to respond to the request based on at least one of (i) lapse of a predetermined time period, and (ii) whether another device on the network issues a response to the request.

- 15. The article of claim 14, wherein the predetermined time period is unique to the first network device relative to other devices on the network.
- 16. The article of claim 14, wherein if another device on the network issues a response, the first network device does not issue a response.
- 17. The article of claim 16, wherein if another device on the network issues a response, the first network device: receives the response from the other device;

compares information in the response to stored configuration information; and

determines whether to reconfigure itself based on the comparison.

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18. The article of claim 17, wherein, if the information in the response does not match the stored configuration information, the first network device reconfigures itself.

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19. The article of claim 14, wherein the request comprises a combined router solicitation and an address mask request.

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20. The article of claim 14, wherein a response to the request comprises a combined router advertisement and an address mask reply.

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21. The article of claim 14, wherein the first network device comprises one of a peer of the second network device and a router to an external network.

22. A first network device for use in configuring a second network device, the first network device comprising:

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memory that stores executable instructions; and a processor that executes the instructions to:

receive a request for configuration information from the second network device; and

determine whether to respond to the request based on .

at least one of (i) lapse of a predetermined time period,

and (ii) whether another device on the network issues a

response to the request.

- 23. The first network device of claim 22, wherein the predetermined time period is unique to the first network device relative to other devices on the network.
- 24. The first network device of claim 22, wherein if another device on the network issues a response, the first network device does not issue a response.
- 25. The first network device of claim 24, wherein if another device on the network issues a response, the first network device:

receives the response from the other device;

compares information in the response to stored

configuration information; and

determines whether to reconfigure itself based on the comparison.

- 26. The first network device of claim 25, wherein, if the information in the response does not match the stored configuration information, the first network device reconfigures itself.
  - 27. The first network device of claim 22, wherein the request comprises a combined router solicitation and an address mask request.
  - 28. The first network device of claim 22, wherein a response to the request comprises a combined router advertisement and an address mask reply.
  - 29. The first network device of claim 22, wherein the first network device comprises one of a peer of the second network device and a router to an external network.

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